



Oscilent Corporation

PRODUCT SPECIFICATION

REV A January 2011


Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL76.8M-20	76.8 MHz IF SAW Filter 20.0 MHz Bandwidth

Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
- o Electrical Specification
- o Frequency Response

Notes

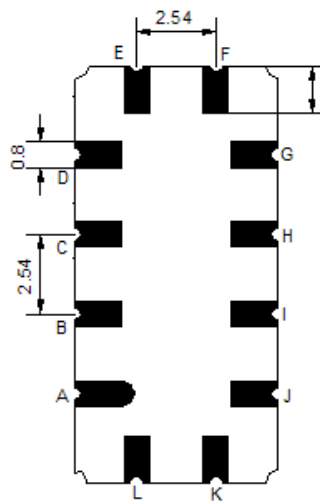
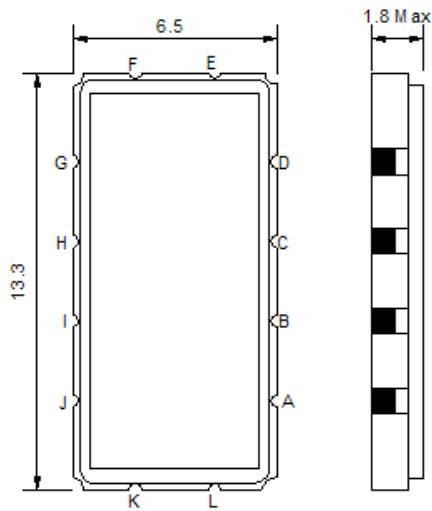
- o Electrostatic Sensitive Device (ESD) 
- o Avoid excessive ultrasonic exposure
- o Solderability compatible with JEDEC J-STD-020C Pb-free process, 260°C peak reflow temperature
- o This product complies with EU directive 2002/95/EC (RoHS compliance)



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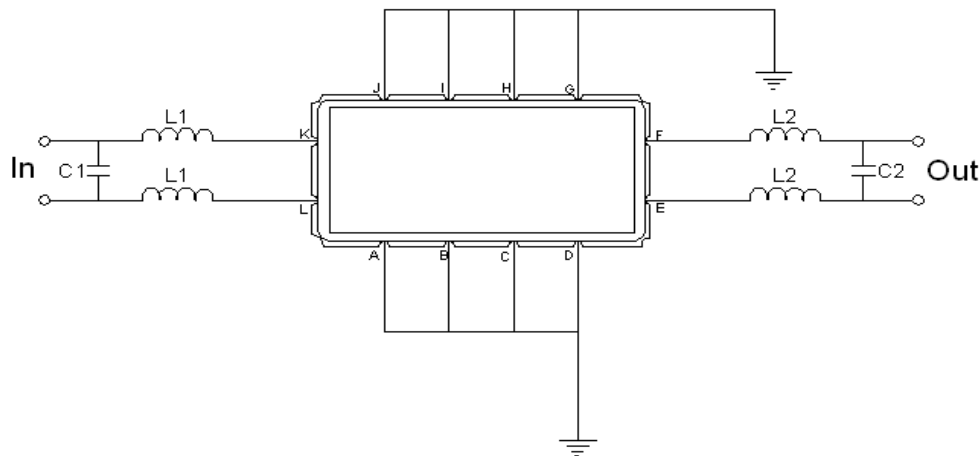


Mechanical Dimensions (mm)



Pin Description	
K	Input +
L	Input -
E	Output +
F	Output -
A, B, C, D, G, H, I, J	Ground

Test Circuit



Test Fixture & Values	
Input	L1=120nH , C1=10pF
Output	L2=150nH , C2=10pF
Source/Load Impedance	50 Ω



Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-

Notes: With Matching Network (Ref. Testing Environment Circuit as shown above).

Those impedances could be modified with different impedance values and/or structures, if necessary.

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	76.8	-
Insertion Loss at Fo	dB	-	15.5	17
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple Variation	dB _{p-p}	-	0.5	1.0
Absolute Delay at Fo	μsec	-	0.8	-
Bandwidth at -1.0 dB	MHz	20.0	21.2	-
Bandwidth at -3.0 dB	MHz	-	22.2	-
Bandwidth at -40.0 dB	MHz	-	26.2	28.0
Relative attenuation				
Fo±25MHz	dB	40	48	-
Fo±35MHz	dB	40	52	-
Passband Phase Ripple	Deg.	-	5	9



Frequency Response

